

## Monday, September 6<sup>th</sup> 2010

09:30 – 09:40	<b>Claudia Steinem</b> Welcome
09:40 – 10:20	<b>Alfred Blume</b> (Halle) The interaction of antimicrobial peptides with lipid monolayers and bilayers
10:20 – 10:40	<b>Ulf Diederichsen</b> Interaction of peptide/PNA hybrids in and between membranes
10:40 – 11:00	<b>Marina Bennati</b> Towards determination of orientations in transmembrane peptides by pulse EPR spectroscopy
<b>11:00 – 11:30</b>	<b>Coffee Break</b>
11:30 – 12:10	<b>Petra Schwille</b> (Dresden) The power of in vitro systems in characterizing protein-lipid interactions
12:10- 12:30	<b>Qui Van</b> Quantifying the translational and rotational diffusion of membrane proteins and peptides
12:30 – 12:50	<b>Christoph Schmidt</b> Mechanosensitive membrane channels in primary cilia of kidney epithelial cells
<b>12:50 – 14:00</b>	<b>Lunch</b>
14:00 – 14:40	<b>Motomu Tanaka</b> (Heidelberg) Specific and generic roles of carbohydrates in regulating membrane mechanics and cell behaviors
14:40 – 15:00	<b>Daniel B. Werz</b> Towards the chemical synthesis of fluorescent glycosphingolipids
15:00 – 15:20	<b>Christian Ducho</b> Structural insights into protein-ligand-membrane interactions for the bacterial membrane protein Mray: synthesis and application of chemical probes
15:20 – 15:40	<b>Kai Tittmann</b> Structural basis for membrane bindings and concomitant catalytic activation of the peripheral membrane enzyme pyruvate oxidase
<b>15:40 – 17:00</b>	<b>Coffee Break / Poster Session</b>
17:00 – 17:40	<b>Samuel Kou</b> (Boston) Sequential Monte Carlo method for protein folding
17:40 – 18:00	<b>Axel Munk</b> Statistical jump analysis for single ion channel recordings
18:00 – 18:20	<b>Bert de Groot</b> Molecular dynamics simulations of lipid-protein interactions
18:20 – 18:40	<b>Adam Lange</b> The native conformation of the human VDAC 1 N-terminus
<b>19:00</b>	<b>Conference Dinner</b>

## Tuesday, September 7<sup>th</sup> 2010

8:30 – 09:10	<b>Ulrich Koert (Marburg)</b> Structural and functional studies on synthetically modified
09:10 – 09:30	<b>Tim Salditt</b> Membrane fusion by x-rays: from model membranes to organelles
09:30 – 09:50	<b>Helmut Grubmüller</b> SNARE mediated liposome fusion in molecular detail
<b>09:50 – 11:10</b>	<b>Coffee Break / Poster Session</b>
11:10 – 11:50	<b>Fredrik Höök (Gothenburg)</b> SPR and LSPR combined with cell-membrane mimics for drug screening studies
11:50 – 12:10	<b>Marcus Müller</b> Free energy calculations of self-assembled structures: liquid-gel transition and fusion stalks
12:10 – 12:30	<b>Claudia Steinem</b> Fusion assay based on pore-spanning membranes
<b>12:30 – 13:30</b>	<b>Lunch</b>
13:30 – 14:10	<b>Reinhard Lipowsky (Golm)</b> Multi-scale reorganization of bio-membranes
14:10 – 14:30	<b>Peter Jomo Walla</b> Discrimination between docking and fusion of liposomes using FCS and Förster energy transfer
14:30 – 15:10	<b>Axel Brunger (Stanford)</b> Single particle fluorescence microscopy of calcium triggered vesicle fusion
15:10 – 15:20	<b>Claudia Steinem</b> Concluding remarks
<b>15:20</b>	<b>Departure</b>